

## **IN THE ABSTRACT**

Please replace the abstract on this application with the abstract on a separate page.

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A luminescence analysis apparatus, in particular for fluorescence microscopy, has a lighting assembly having a lighting unit which includes a preassembled module housed inside a housing; the module is defined by a LED mounted on a plate, and by an optical collimating element connected integrally to the LED and located in close proximity to the LED; the optical element is a catadioptric collimator made of transparent plastic material and designed to internally convey and transmit the light emitted by the LED, so as to generate a substantially parallel beam of light rays which is directed onto a luminesce sample for analysis.